



The Menneken Faculty Award for Excellence in Scientific Research

Presented to

Associate Professor

John McEachen

**Faculty
Recognition
June 6, 2006**

The research award was established in memory of Distinguished Professor Carl E. Menneken, Dean of Research Administration at the School from 1962 to 1972. Funding for the award is provided from a grant given to the Naval Postgraduate School Foundation by Mrs. Jessie Menneken. The purpose of the award is to recognize highly meritorious research by a junior NPS faculty member-researcher that has identifiable impact on Navy or other Department of Defense technology.

(Pictured below McEachen crawls out of the net-work which occupies most of his time)



John McEachen is an Associate Professor in the Department of Electrical and Computer Engineering of the Naval Postgraduate School, Monterey, California. He received the Ph.D. and M.Phil. degrees from Yale University, the M.E.E.E. degree from the University of Virginia and the B.S.E.E. from the University of Notre Dame. Dr. McEachen's teaching interests include computer networks, communications systems, signals intelligence and information warfare. His research interests include managing routing in computer networks, wireless networking protocols, patternless intrusion detection, and steganographic communications. Currently, he is a co-director for the EC Advanced Networking Laboratory. He has served as the NPS Research Desk representative to the Commander, Third Fleet and the U.S. Navy Sea-Based Battle Laboratory (SBBL). In 2003, he was awarded the Richard W. Hamming award for excellence in interdisciplinary teaching. He is a Commander in the U.S. Naval Reserves and is a member of the IEEE, Tau Beta Pi and Eta Kappa Nu.

From 1985 to 1990, Dr. McEachen served as a Cryptologic Officer in the U.S. Navy. During this period he was assigned as a theater specialist for submarine special operations in the Pacific Fleet, augmenting the crew on several submarine deployments. While not at sea, he was stationed in Misawa, Japan, as a SIGINT Division Officer and Operations Watch Officer. He was subsequently assigned to the Commander, Naval Security Group Headquarters, Washington, D.C. where he was in charge of the design and deployment of several new communications and SIGINT systems. During this period Dr. McEachen also completed the one-year Basic Russian course at the Defense Language Institute, Monterey, California.

Upon honorable discharge from the Navy in 1990, Dr. McEachen continued in the Naval Reserves while completing his graduate education. Dr. McEachen's reserve assignments included a six-year term at the National Security Agency where he provided tailored contributory support on an as-needed basis. During this time he served as a project engineer for advanced network protocol analysis and special application development, site architect for the first NSA text retrieval search engine, and technical specialist analyzing complex, specialized signal processing problems. Currently, Dr. McEachen's reserve assignment involves providing tailored instruction in computer networking and information operations to DoD field sites throughout the world.

In 1996, Dr. McEachen received a National Research Service Award to conduct post-doctoral research at Yale University. His research focused on distribution of video databases using computer networks.

Prior to joining NPS in 1996, Dr. McEachen also served as a consultant for information processing and networking. His past clients have included Ford Motor Company, Holiday Inns, Allied Signal, Boeing, Yahoo!, Johns Hopkins Medical Institutes and ACS.